

Solid Oxide Fuel Cell With Internal Reforming, Catalyzed Interconnect For Use Therewith, and Methods

Abstract

A catalyzed interconnect for an SOFC electrically connects an anode and an anodic current collector and comprises a metallic substrate, which provides space between the anode and anodic current collector for fuel gas flow over at least a portion of the anode, and a catalytic coating on the metallic substrate comprising a catalyst for catalyzing hydrocarbon fuel in the fuel gas to hydrogen rich reformate. An SOFC including the catalyzed anodic interconnect, a method for operating an SOFC, and a method for making a catalyzed anodic interconnect are also disclosed.